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**PHOTOGRAPHIC
INTERPRETATION
REPORT**

**NATIONAL PHOTOGRAPHIC
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**AIR WARNING AND COASTAL
SURVEILLANCE RADAR FACILITIES IN SYRIA
AND IRAQ**

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SUBJECTS

- a. Air Warning and Coastal Surveillance
Radar Facilities in Syria and Iraq
- b. Herzliya Munitions and Probable Rocket
Motor Production Plant Ramat Hasharon
- c. Iranian Defensive Line on the Southern
Iraq/Iran Border

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The referenced reports should be stamped

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WARNING NOTICE
Sensitive Intelligence Sources
and Methods Involved.

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AIR WARNING AND COASTAL SURVEILLANCE RADAR FACILITIES IN SYRIA AND IRAQ

ABSTRACT

1. This report describes the status of air warning (AW) radar facilities and coastal surveillance radar facilities in Syria and Iraq as of April 1972. The information was derived from a review of 1971-72 KEYHOLE photography through April 1972. The report includes a description of newly identified facilities, tables and maps which give the status and location of the facilities, and photographs of selected installations.

2. Radars directly associated with SAM sites or with AAA sites are not included in this report. This report supersedes those portions of NPIC [redacted] Air Warning Radar Facilities in the Middle East, Nov 71 (TOP SECRET RUFF) which cover Syria and Iraq.

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INTRODUCTION

3. As of November 1971, a total of ten AW radar sites, eight of which were occupied, had been identified in Syria. Twelve AW radar sites, seven of which were occupied, had been identified in Iraq. No coastal surveillance radar sites had been identified at that time in either country. Analysis [redacted]

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[redacted] revealed four additional AW radar sites and two coastal surveillance radar facilities in Syria and three additional AW radar sites in Iraq. Two of the previously reported AW radar sites in Iraq had been abandoned. Other significant changes in the status of previously identified radar facilities were also observed.

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4. Only the radar facilities which were first identified [redacted] are described in this report. The status of previously identified radar facilities is summarized in Tables 1 and 2. Figures 1 and 2 show the locations of all the facilities.

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BASIC DESCRIPTION

Syria

5. Fourteen AW radar facilities and two coastal surveillance radar facilities have been identified in Syria (Figure 1 and Table 1). New AW radar facilities were identified near the towns of Dara, Aleppo, As Suwayda, and Mallah. New coastal surveillance radar facilities were identified near the ports of Al Ladhikiyah and Tartus. Eleven of the 14 AW radar facilities and both of the coastal surveillance radar facilities were occupied. Twelve of the 14 AW radar facilities had been hardened. The following are descriptions of the newly identified facilities.

a. Dara AW Radar Facility [redacted] is 3.7 nautical miles (nm) east-northeast of Dara at 32-38-10N 036-10-00E. It contains two radar mounds, a probable earth-covered building with a SQUAT EYE radar mast mounted on top, and at least six concrete-lined earth-covered vehicle or equipment revetments. The site is not secured.

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b. Aleppo AW Radar Facility [redacted] is 4 nm southeast of Halab (Aleppo) at 36-10-05N 037-13-30E. It contains two radar mounds, one probable underground control building, one probable control building, three support buildings, and ten vehicle or equipment revetments.

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c. Tell El Harf AW Radar Facility [redacted] is 11.5 nm northeast of As Suwayda at 32-49-25N 036-45-20E. It contains one radar mound, three small buildings, 24 vehicle or equipment revetments, and 39 tents.

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d. Mallah AW Radar Facility [redacted] is 8.2 nm southeast of Mallah and 15 nm northwest of the H-5 pumping station on the Kirkuk-Haifa pipeline at 32-23-55N 036-56-40E. It contains one probable radar mound, 14 vehicle or equipment revetments, and at least 15 tent bases.

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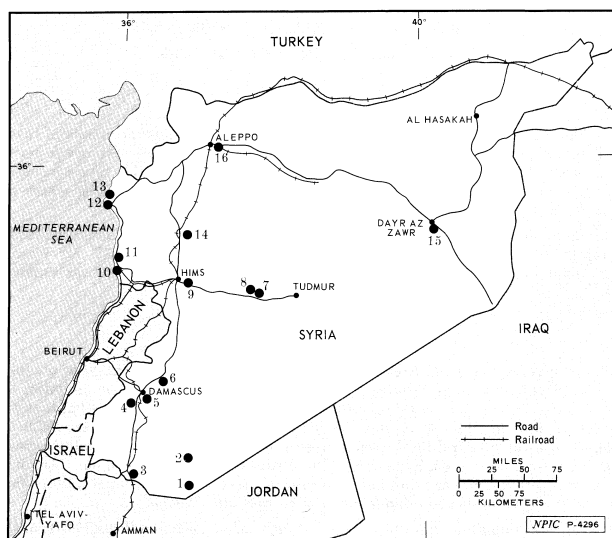


FIGURE 1. AIR WARNING AND COASTAL SURVEILLANCE RADAR FACILITIES IN SYRIA

Table 1. Air Warning and Coastal Surveillance Radar Facilities in Syria

Name (Numbers keyed to Figure 1)	Geographic Coordinates	Status	Type	No of Mounds	Radars
Allepjo AW Radar Facility (16)	36-10-05N 037-13-30E	Unp	Hard	2	None
Al Ladhigiyah Coastal Surveillance Radar Facility (12)	35-31-10N 035-49-25E	Occ	Soft	0	1 LOW SIEVE, 1 prob FLAT FACE
Dara AW Radar Facility (3)	33-38-10N 036-10-00E	Occ	Hard	2	1 SQUAT EYE, 1 FLAT FACE, 1 prob KNIFE REST
Dumayr Air Zowr AW Radar Facility (15)	36-17-05N 040-10-01E	Occ	Soft	0	1 BIG BAR
Dumayr AW Radar Facility (6)	33-34-00N 036-43-30E	Occ	Hard	4	2 BAR LOCK, 2 SIDE NET, 1 prob FISH NET
Hamah AW Radar Facility (14)	35-13-20N 036-53-05E	Occ	Hard	4	2 prob BAR LOCK, 2 SIDE NET, 1 prob KNIFE REST
Hims AW Radar Facility (9)	34-40-30N 036-47-30E	Occ	Hard	1	1 SQUAT EYE, 1 FLAT FACE, 1 height-finder
Jabal Al Mani AW Radar Facility (4)	33-19-45N 036-17-00E	Occ	Hard	1	1 SIDE NET, 1 prob KNIFE REST
Lattaqah AW Radar Facility NW (13)	35-33-40N 035-44-42E	Occ	Hard	2	1 BAR LOCK, 1 BIG BAR, 1 height-finder, 1 prob SCORE BOARD
Marjah AW Radar Facility (11)	32-23-55N 036-56-40E	Unp	Hard	1	None
Marjah Saitan AW Radar Facility (5)	33-32-30N 036-38-30E	Occ	Hard	4	2 BAR LOCK, 2 height-finder
Tartus AW Radar Facility (10)	34-50-40N 035-54-30E	Occ	Hard	2	1 prob BAR LOCK, 1 height-finder, 1 KNIFE REST type
Tartus Radar Facility Duwayr (11)	34-50-00N 035-55-27E	Occ	Soft	0	1 LOW SIEVE
Tel el Harf AW Radar Facility (2)	32-49-25N 036-45-20E	Occ	Hard	1	1 prob FLAT FACE, 1 height-finder, 1 prob SQUAT EYE
Tyres Airfield AW Radar Facility (8)	34-33-20N 037-35-25E	Occ	Soft	0	1 BAR LOCK, 1 BIG BAR, 1 SIDE NET, 1 FLAT FACE
Tyres Airfield AW Radar Facility (2 (7))	34-33-00N 037-35-45E	Unp	Hard	4	None

e. Al Ladhigiyah Coastal Surveillance Radar Facility () is on a hilltop in the north central section of Al Ladhigiyah at 35-31-10N 035-49-25E. It is secured by a fence and contains one LOW SIEVE radar mounted on a steel lattice tower, one underground control building, six support buildings, a guard shed, and an observation

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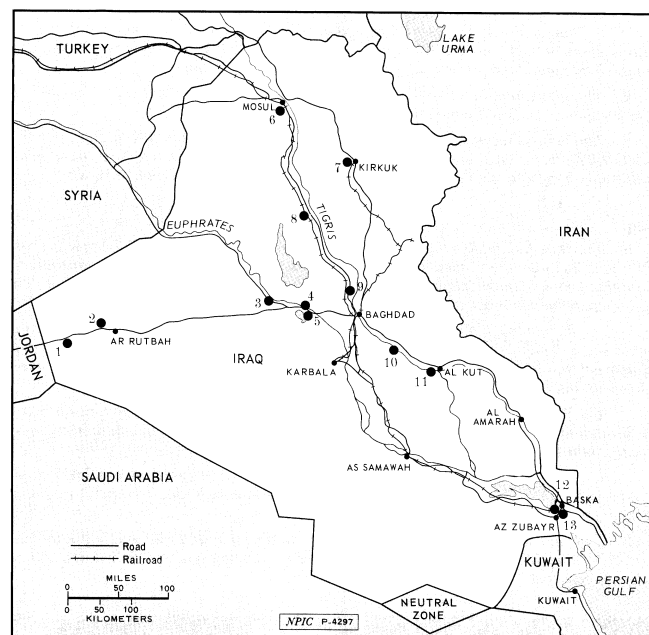


FIGURE 2. AIR WARNING RADAR FACILITIES IN IRAQ

Table 2. Air Warning Radar Facilities in Iraq

Name (Numbers keyed to Figure 2)	Geographic Coordinates	Status	Type	No of Mounds	Radars
Al Kut AW Radar Facility (11)	32-30-45N 040-47-50E	Unp	Soft	0	None
Ar Rutbah AW Radar Facility (12)	33-57-20N 040-03-32E	Occ	Hard	5	1 BAR LOCK, 1 BIG BAR, 1 prob SIDE NET, 1 height-finder, 1 prob FLAT FACE
Ash Shuybah AW Radar Facility 1 (12)	30-25-44N 047-37-20E	Occ	Hard	1	1 TOKEN, 1 prob FISH NET
Ash Shuybah AW Radar Facility 2 (13)	30-24-15N 047-40-00E	Occ	Hard	1	1 BIG BAR, 2 FLAT FACE, 2 KNIFE REST, 3 prob FISH NET
Az Zubaydah AW Radar Facility (10)	32-45-25N 040-09-05E	Occ	Hard	2	1 range/azimuth, 1 height-finder
Habbaniyah Pattern AW Radar Facility (5)	33-25-35N 043-34-40E	Unp	Hard	1	None
Habbaniyah Prob AW Radar Facility (4)	33-21-40N 043-34-30E	Unp	Hard	1	None
H-3 Airfield AW Radar Facility (1)	32-55-05N 039-42-10E	Occ	Hard	1	1 SPOON REST, 1 prob SPOON REST
Kirkuk Military Airfield AW Radar Facility (7)	32-27-22N 044-21-20E	Occ	Hard	0	1 BIG BAR, 1 prob SPOON REST, 1 prob KNIFE REST, 1 prob FISH NET
Mosul Airfield AW Radar Facility (6)	36-15-50N 043-07-50E	Occ	Soft	0	1 TOKEN, 1 prob SPOON REST
Camp Taj AW Radar Facility (9)	33-31-08N 044-14-48E	Occ	Hard	2	2 BAR LOCK, 1 BIG BAR, 1 FLAT FACE, 3 SIDE NET
Tall Asabiah AW Radar Facility (3)	33-31-25N 042-56-00E	Occ	Hard	1	2 BIG BAR, 1 height-finder
Tylos AW Radar Facility (8)	34-42-30N 043-33-00E	Unp	Hard	2	None

tower. A large, heavily revetted, probable command and control bunker is on a hilltop just north of the radar site. The coastal surveillance radar facility and the associated bunker are shown in Figure 3.

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f. Tartus Radar Facility Duwayr [] is 6.2 nm north-northeast of Tartus at 34-59-03N 035-55-27E. It contains one LOW SIEVE coastal surveillance radar mounted on a steel lattice tower and one control or support building. 25X1

6. The identification of SQUAT EYE radar in Syria in January 1972 indicates an improvement to their AW capabilities.

7. The radars and associated electronics equipment at Hamah AW Radar Facility [] have been transferred from the previously reported soft site to a newly constructed hard site just south of the old site. The new hard site is shown in Figure 4. 25X1

Iraq

8. Thirteen AW radar sites have been identified in Iraq (Figure 2 and Table 2). New AW radar facilities were identified near the towns of Ar Rutbah, Ar Ramadi, and Tikrit. Nine of the 13 AW radar facilities were occupied and 11 of the 13 had been hardened. The following are the newly identified facilities.

a. Ar Rutbah AW Radar Facility [] is 12.5 nm west-northwest of Ar Rutbah at 33-07-35N 040-03-32E. It contains five radar mounds, 18 hardened vehicle or equipment revetments, and at least 11 small sheds. A small mast containing three microwave dishes was in the northwest corner of the facility. 25X1

b. Tall Aqabah AW Radar Facility [] is 19.5 nm west-northwest of Ar Ramadi at 33-31-25N 042-56-00E. It contains one radar mound, one administration or control building, and nine vehicle or equipment revetments. 25X1

c. Tikrit AW Radar Facility [] is 9.5 nm northwest of Tikrit at 34-42-30N 043-33-00E. It is secured by a fence and contains two radar mounds, a support building, two sheds, and 12 tents. 25X1

9. Two previously reported sites, H-3 AW Radar Facility 2 [] and Rashid Airfield AW Radar Facility [] have been demolished and will no longer be reported. 25X1

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DOCUMENTS

NPIC. *Air Warning Radar Facilities in the Middle East*, Nov 71 (TOP SECRET RUFF)

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REQUIREMENT

NPIC/IEG/SGD/MEAB Project 143342NS

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